

**What is claimed is:**

1. A dual sound coil structure for a sounder device comprising:

a seat member configured from an iron U-shape and a supporting frame;

5 a magnet disposed within the iron U-shape, and an electrode is configured atop the magnet;

a terminal board configured on an outer side of the supporting frame, with which provides for an electrical connection;

a first sound coil, which peripherally encircles the electrode and the magnet, moreover, a pair of electrode leading wires outwardly extend  
10 therefrom, and provide for an electrical connection therewith;

a second sound coil, which peripherally encircles the first sound coil, moreover, a pair of electrode leading wires outwardly extend therefrom, and provide for an electrical connection therewith; and

15 vibrating diaphragms configured atop the supporting frame, and upon fitting the vibrating diaphragms, the first sound coil and the second sound coil are thereby joined to the vibrating diaphragms.

2. The dual sound coil structure for a sounder device according to claim

1, wherein a series connection is competed between the first sound  
20 coil and the second sound coil.

3. The dual sound coil structure for a sounder device according to claim 1, wherein a parallel connection is competed between the first sound coil and the second sound coil.

4. The dual sound coil structure for a sounder device according to claim 1, wherein impedance of the first sound coil can be modified in accordance with requirements.

5. The dual sound coil structure for a sounder device according to claim 1, wherein impedance of the second sound coil can be modified in accordance with requirements.

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